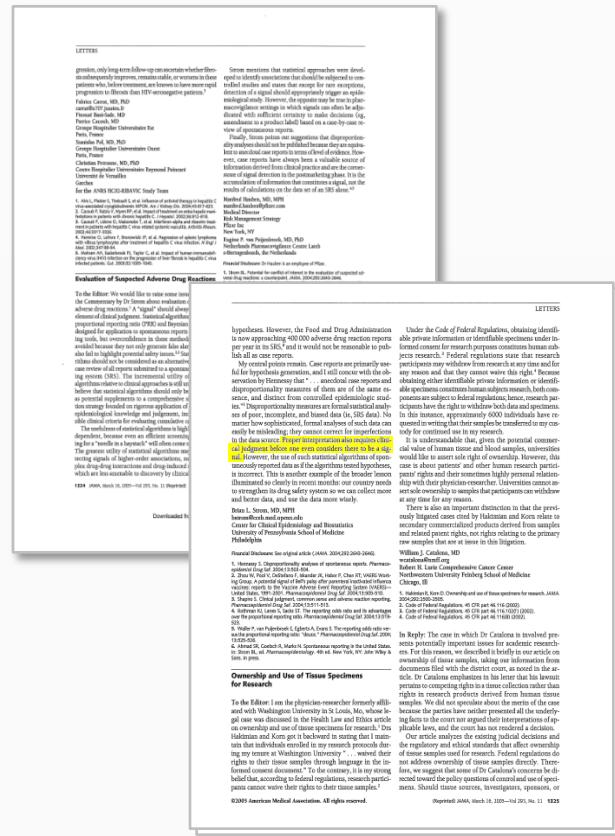


Dr. Ruggieri's Opinions

- Pfizer and Warner-Lambert acted reasonably and complied with regulatory requirements in monitoring the safety of Neurontin
- The information available to Warner-Lambert and Pfizer has consistently failed to support an association or reveal any signal of potential increased risk for depression or suicidal behaviors in patients taking Neurontin
- No signal emerged sufficient to raise special safety concerns in the off-label use of Neurontin
- The Neurontin labeling adequately conveyed necessary information to prescribers regarding the risks and benefits of the medicine

Clinical Judgment Necessary to Interpret Signal



"Proper interpretation also requires clinical judgment before one even considers there to be a signal."

Source: Strom, *JAMA*, 293:1324-5 (2005)

Sample MedWatch Form

U.S. Department of Health and Human Services
MEDWATCH
The FDA Safety Information and
Adverse Event Reporting Program

For VOLUNTARY reporting of
adverse events, product problems and
product use errors

Form Approved: OMB No. 0950-0291, Expires: 12/31/2011
See OMB statement on reverse

Page 1 of _____

A: PATIENT INFORMATION

1. Patient Identifier: _____
2. Date of Birth: _____
3. Sex: Male Female
4. Weight: _____ kg
5. In confidence: _____

B: ADVERSE EVENT, PRODUCT PROBLEM OR ERROR

6. Describe the event:
1. Adverse Event: Product Problem (e.g., defect/infunctions) Product Use Error Problem with Different Manufacturer of Same Medicine
2. Outcomes Attributed to Adverse Event (Check all that apply)
 Death: Disability or Permanent Damage
 Life-threatening: Congenital Anomaly/Birth Defect
 Hospitalization - initial or prolonged: Other Serious (Impairing) Medical Events
 Required Intervention to Prevent Permanent Impairment/Damage (Devices)
3. Date of Event (mm/dd/yyyy): _____ 4. Date of this Report (mm/dd/yyyy): _____

5. Describe Event, Problem or Product Use Error

PLEASE TYPE OR USE BLACK INK

C: PRODUCT AVAILABILITY
Product Available for Evaluation? (Do not send product to FDA)
 Yes No Returned to Manufacturer on: (mm/dd/yyyy)

D: SUSPECT PRODUCT(S)
Name, Strength, Manufacturer (from product label)
1# Name: _____ Strength: _____ Manufacturer: _____
2# Name: _____ Strength: _____ Manufacturer: _____

FORM FDA 3500 (1/06) Submission of a report does not constitute an admission that medical personnel or the product caused or contributed to the event.

Submission of a report does
not constitute an admission
that medical personnel or
the product caused or
contributed to the event.

June 7, 2001 Memo on First Pfizer PMP Meeting

Date:	June 7, 2001
To:	Distribution
From:	Cynthia de Luise, RPA-C, MPH
Subject:	Neurontin PMP Team Meeting (09 May 2001) Minutes
Attendees present in New York, Ann Arbor, or via teleconference:	
Clinical Data Operations	Regulatory QA
Demissie Alemayehu	Marc Wolfson
Sue Huang	
Clinical PGRD	Safety Evaluation and Epidemiology
Preston Holley	Epidemiology
Lloyd Knapp	Cynthia de Luise
Clinical Safety and Risk Management	Cathy Sigler (chairperson)
Bob Brody	Regulatory Labeling
Xiaofeng Zhou	Philip Arena
Drug Safety Evaluation	Chris Pacella
Robin Walker	
Legal	
Valerie Flapan	
Medical Information	
Susanne Batesko	
Project Planning PGRD	
Paul Misak	
Regulatory Strategy	
PPG-NY	
Alice Gurley	
PPG-Europe	
Nick Moutzouris	
PGRD-Ann Arbor	
Drusilla Scott	
Postmarketing Safety Review for sNDA (M Hadden)	
In preparation for the neuropathic pain sNDA submission, a summary report of postmarketing data was recently completed. The objective was to identify any potential safety signals in the postmarketing database for neuropathic pain. Additionally, searches were conducted for potential interactions with drugs to treat diabetic mellitus, since painful diabetic neuropathy is a major subset of neuropathic pain.	
A review of the database revealed a similar distribution of postmarketing adverse events in the neuropathic pain dataset compared to the dataset comprised of other indications. Summaries of the pediatric and elderly subpopulations also found no safety concerns unique to those groups.	
The entire postmarketing event database was also queried for reports of peripheral edema while taking gabapentin. Of the 77 patients with peripheral edema, only 1 had an associated clinical event. This patient had peripheral edema and hypertension. There were 4 reports involving gabapentin and agents to treat diabetes mellitus out of a total database of over 13,000 reports. There was no significant signal in the database for peripheral edema associated with gabapentin to treat neuropathic pain. Additional follow-up will be conducted as needed, including the focused review of individual reports, screening for signals involving low frequency that are typical of drug-induced adverse events, such as liver necrosis, agranulocytosis, and QT-interval prolongation. As with all spontaneous adverse event reports, limited inferences can be made as there is underreporting and no denominator for these events.	
Postmarketing Ad Hoc Reports (M Campbell)	
The Safety Analysis group within Safety Evaluation and Epidemiology prepares ad-hoc safety reports in response to safety-related adverse event queries from regulatory agencies around the world.	

The objective was to identify any potential safety signals in the database involving gabapentin use for neuropathic pain.

Pfizer Reviewed Adverse Events

July 25, 2002 Meeting



Memo Date: July 30, 2002

To: Distribution

From: Christopher Pacella

Re: Gabapentin Product Maintenance and Pharmacovigilance (PMP) Labeling Core Working Group (CWG)

Meeting Date: July 25, 2002

Attendees: Philip Arena, Robert Glanzman, Manfred Hauben, Christopher Pacella (Chairperson), Manini Patel, Tina Zhang

Absentees: Lisa Cortina, Alan Hassel, Alvaro Quintana

Purpose: To identify gabapentin events from the ARISg/WAERS databases for review and for possible addition to the gabapentin labeling.

Discussion:

The ARISg/WAERS databases were searched for gabapentin adverse event cases which were entered into the databases through 31Mar02. A report (28C) was provided, which included all preferred adverse event terms categorized according to the COSTART body system with reporting frequency.

The adverse events selected for this review were those being unlabeled and meeting one or more of the following criteria:

- Reporting frequency of $\geq 1\%$ on report 28C
- Medically significant
- Characteristic of a drug-induced adverse reaction in general
- Pharmacologically plausible

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- Reporting frequency of $\geq 1\%$ on report 28C
- Medically significant
- Characteristics of a drug-induced adverse reaction in general
- Pharmacologically plausible

Pfizer Analyzes Adverse Events in Off-Label Use Populations in 2001

Analysis of literature cases (brief summary of those cases with labeled events). Case summaries of those cases with unlabeled events. This is included based on the level of documentation and clinical detail usually required by the peer review process.

D. Section 4

Review of fatal cases.

E. Section 5

Review of events of relevance to the neuropathic pain population: The intent would be to note whether there are possible signals of specific adverse events in the neuropathic pain population that may be diluted by the overall population and to assess the strength of any signal. A signal might be a positive rechallenge in the absence of risk factors and these cases if any would be summarized; otherwise a general overview would suffice with a conclusion based on medical review. The intent of the review of these events is to satisfy ourselves that the neuropathic pain population is not at an increased risk to develop these specific events.

Psychiatric (Nervous System)

Patients with chronic neuropathic pain may represent a population with a significant amount of comorbid depression (150 cases) and anxiety (12). Therefore these cases will be looked at to include or exclude any significant signal of drug induced depression/worsening depression.

Cardiac

Heart failure and congestive heart failure (21) because of the high incidence of comorbid cardiovascular disease in the diabetic population.

Because of the high of incidence of peripheral edema in classical trials of neuropathic pain and because it is one of the more commonly reported spontaneous events, this event may merit increased attention in the context of comorbid cardiovascular diseases such as the diabetics associated with neuropathic pain. Edema, peripheral and peripheral neuropathy will be looked at to see if there is an association with cardiovascular events and their sequelae. The intent of looking at these events is not to confirm or refute causality with gabapentin but to determine if edema and edema associated events may cause cardiovascular compromise in the neuropathic pain patient.

QT related events – Drugs from multiple therapeutic areas have been associated with QT interval prolongation and the neuropathic pain population would be expected to have significant comorbid cardiovascular disease, which might predispose patient to QT prolongation. Events to be looked at include cardiac arrest, ventricular fibrillation, heart arrest, QT interval prolonged, fibrillation ventricular, ventricular tachycardia.

Endocrine, Metabolic and nutrition

Diabetes Mellitus, diabetic coma, hypoglycemia, hypoglycemia, (70 cases) will be looked at. Do these cases generate a signal that gabapentin may affect glycemic control?

Pfizer_Mlauban_0000124

Review of events of relevance to the neuropathic pain population. The intent would be to note whether there are possible signals of specific adverse events in the neuropathic pain population that may be diluted by the overall population and to assess the strength of any signal.

Pfizer Analyzes Adverse Events in Neuropathic Pain Population in 2001

Objective: With the post marketing use of gabapentin in patients other than with epilepsy it is important to identify whether these new populations may be particularly susceptible to specific adverse drug effects both labeled and unlabeled and to identify conditions under which specific adverse events may be more likely to occur in these new patient populations. The development of the safety profile of any drug requires a broad-based approach. This includes the need to consider the use of the safe and judicious use of gabapentin for the specific clinical application which we are seeking in the United States (neuropathic pain), accumulation and analysis of the broader population's safety experience is critical for the ongoing development of an overall safety profile. The intent of this report is to summarize the safety of the overall population using the ICH pharmacovigilance safety update report format with additional focused reviews of selected events for potential signals which might be of particular relevance to the neuropathic pain population. It should be noted that a dedicated Product Maintenance and Pharmacovigilance (PM&V) committee for gabapentin will be formed to perform an on-going review of serious events on a periodic basis.

Report Format

I Overall Description of Postmarketing Dataset

A. Section 1

- Total number of cases and events. Source of report (reporter versus country of origin versus both). Gender distribution. Age breakdown. Serious cases. Outcomes. Breakdown by dose 0-2400, 2400-3600 and > 3600. Indications listed below the table

- Table of body systems containing 2% or more (others can be included as "other") of the events with the most commonly listed below the table

- Table of these events reported by System. Unlabeled events will be included in general sense to see the nature of Some of these events may be unlabeled. In some we cannot get a summary table Safety Update Reports (PSUR).

- Possibly provide a summary of events with the most commonly listed below the table

Tables should combine WAERS and AERS

B. Section 2

This section will contain a table and an all expert reports/pharma report, source of request in case findings and current labeling if emphasizing the ongoing evaluation

C. Section 3

Analysis of literature cases (brief summary of these cases with labeled events). Case summaries of those cases with unlabeled events. This is included based on the level of documentation and clinical detail usually required by the peer review process

D. Section 4

Review of fatal cases.

E. Section 5

Review of events of relevance to the neuropathic pain population. The intent would be to note whether there are possible signals of specific adverse events in the neuropathic pain population that may be diluted by the overall population and to assess the strength of any signal. A signal might be a positive rechallenge in the absence of risk factors and these cases should be reviewed. An overall review of these events will lead to a conclusion based on medical review. The intent of the review of these events is to satisfy ourselves that the neuropathic pain population is not at an increased risk to develop these specific events.

Psychiatric (Nervous System)

Patients with chronic neuropathic pain may represent a population with a significant amount of comorbid depression (150 cases) and suicide (15). Therefore these cases will be looked at to exclude any significant signal of drug induced depression/worsening depression.

F. Section 6

Heart failure and congestive heart failure (CHF) because of the high incidence of congestive cardiovascular disease in the diabetic population.

Because of the high incidence of peripheral edema in clinical trials of neuropathic pain and because it is one of the more frequently reported spontaneous events, this event may assume increased significance in patients with comorbid cardiovascular disease such as the diabetic population with neuropathic pain. Edema peripheral and peripheral edema will be looked at to determine if gabapentin is associated with this event. The intent of looking at these events is not to confirm or refute causality with gabapentin but to determine if edema and edema associated events may cause cardiovascular compromise in the neuropathic pain patient.

QT related events - Drugs from multiple therapeutic areas have been associated with QT interval prolongation and the neuropathic pain population would be expected to have significant underlying cardiovascular disease, which might predispose patients to QT prolongation. Events to be looked at include QT interval prolongation, torsades de pointes, ventricular fibrillation, ventricular tachycardia.

G. Endocrine; Metabolic and nutrition

Diabetes Mellitus, diabetic coma, hypoglycemia, hypoglycemia, (70 cases) will be looked at. Do these cases generate a signal that gabapentin may effect glycemic control

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Pfizer's Conclusions on Analysis of Neuropathic Pain Adverse Event Data in 2001

SAFETY ANALYSIS OF POST-MARKETING SAFETY DATABASE FOR GARPARIN

Overview

Pfizer's pharmacovigilance database for gabapentin contains cases of adverse events reported by healthcare providers (formerly Warner Lambert/Parke-Davis Worldwide Safety Network) by both health care professionals and consumers, cases from adverse event registries, cases of adverse events published in the medical literature, and cases of serious adverse events reported to the U.S. Food and Drug Administration (FDA) or to the manufacturer. The databases were reviewed through 31 December 2005 for cases where gabapentin was a primary suspect medication.¹ A total of 7653 cases (one case per patient) were identified. Of these, 7571 cases (99%) were from sources reporting 2005 adverse events were identified in the safety database.

Of those 7553 cases, 5717 were from the United States, 883 from the United Kingdom, 411 from Canada, 211 from Australia, 100 from France, 100 from Switzerland, representing 95% of the total. The remaining 146 cases were distributed among 27 other countries.² There were 2165 males, 4125 females, 791 cases where gender was data entered as unknown. The mean age at onset was 44 years (range 1 month to 97 years). There were 412 (5%) patients 16 years of age or less, 452 (5.9%) patients between the ages of 17 and 64, and 1160 (13.8%) patients over 65 years of age. The mean age at data entered as unknown in 1974 (21.7%) cases and not designated in (6.6%) cases.

The distribution by outcome (at event level) was as follows: recoveries (50%), not yet recovered (24%), deceased (10%), with source (9%), still under treatment/recovery (8%), death after use (7%), and death after discontinuation (2%).

COSTART Body System		Number of adverse events reported in > 5% of pediatric (1-16 years) unexposed by COSTART body system and COSTART preferred adverse event term compared to events in other U.S. drug exposure studies in children	
Term	Count	Term	Count
Cardiovascular System	1	Cardiac arrhythmia	1
Endocrine System	1	Hypothyroidism	1
Gastrointestinal System	1	Abdominal cramps	1
Hepatic System	1	Aspartate transaminase elevated	1
Hematologic System	1	Leukopenia	1
Musculoskeletal System	1	Arthritis	1
Neurological System	1	Convulsions	1
Respiratory System	1	Respiratory distress	1
Urinary System	1	Urinary tract infection	1
Total	1		

COSTART Body System		Number of adverse events reported in > 5% of pediatric (1-16 years) unexposed by COSTART body system and COSTART preferred adverse event term compared to events in other U.S. drug exposure studies in children	
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Endocrine System	1	Hypothyroidism	1
Gastrointestinal System	1	Abdominal cramps	1
Hepatic System	1	Aspartate transaminase elevated	1
Hematologic System	1	Leukopenia	1
Musculoskeletal System	1	Arthritis	1
Neurological System	1	Convulsions	1
Respiratory System	1	Respiratory distress	1
Urinary System	1	Urinary tract infection	1
Total	1		

*This review did not include reports of death, medication errors, or adverse events associated with the use of prescription drugs.

- 1) The overall adverse event profile of [Neurontin] was “consistent with the current prescribing information for [Neurontin] in the treatment of epilepsy;
- 2) The adverse event profile in the neuropathic pain dataset was similar to the dataset comprised of other indications and to the current prescribing information for [Neurontin] in the treatment of epilepsy; [and]
- 3) No significant signals were detected in the neuropathic pain dataset that would indicate adverse events causally related to [Neurontin] that are novel in terms of their nature or severity....

FDA Search Strategy Used by Pfizer in 2004 For Suicide Data From ‘Electronic Sources’

“Proposal for Search Methodology and Information to be Provided Regarding Suicide Related Adverse Events Reported in Gabapentin Clinical Studies and Post-Marketing Data”

Introduction

A teleconference was held between the Agency and Pfizer on April 26, 2004 to discuss reports of suicide in patients taking gabapentin. The Agency agreed to conduct a search of the FDA clinical trial database and open label extension data and post-marketing data. In addition, Pfizer would submit a proposal to the Agency for their review. We are herein submitting a proposal detailing the search methodology and information that will be utilized by Pfizer to identify suicide related adverse events reported in gabapentin clinical studies and post-marketing data.

Clinical Trial Data

As discussed in our teleconference on April 26, 2004, we will review safety data from all NDAs (controlled studies and open label extensions). Data for these clinical trials are found either in electronic databases or in study reports and will be reviewed in a blinded fashion for inclusion of cases. For studies where deblinding has occurred, we will review the study reports. Study reports will be reviewed for inclusion of cases with event terms consistent with text strings specified below. The following provides an outline of the search strategy to be used for data from electronic sources.

- Any events coding to preferred terms (PTs) that include the text strings “suic” or “overdos”. Cases of accidental overdose will not be included.
- Verbatim/Investigator terms that include the following text strings, hyphenated as appropriate: “attempt”, “mutilate”, “overdos”, “self damage”, “self harm”, “self inflict”, “self injur”, “suic”
- All reports of deaths will be reviewed to capture cases reporting fatal outcomes in association with suicide or overdose but in some cases these events were not specifically coded.

Patient listings will be provided with the following information:

- Patient ID number and case number as appropriate
- Adverse event term – both verbatim and preferred
- Sex
- Trial number, as appropriate
- Treatment group, as appropriate
- Total daily dose at the time of the event
- Sex
- Age
- Discontinuation
- Duration of treatment at the time of event
- Discontinuation due to event (3/6)
- Outcome
- Concurrent medications
- Concurrent illnesses
- Investigator causality

Post-Marketing Data

Pfizer’s early alert safety database contains cases of adverse events reported spontaneously to Pfizer, cases reported from health authorities, cases published in the medical literature, and cases of serious adverse events reported to the FDA.

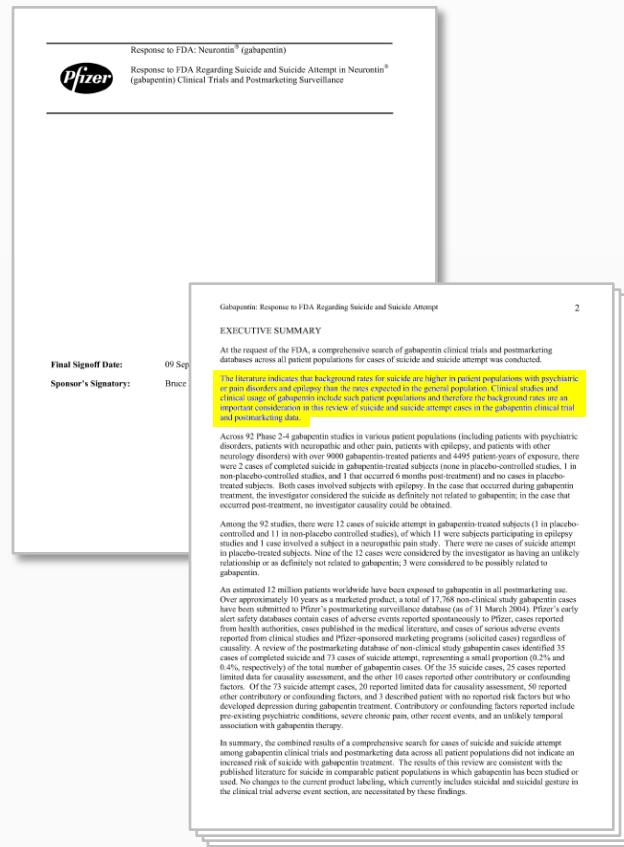
¹ Pfizer Neurontin Proposal April 30th, 2004

CONFIDENTIAL

Pfizer_BParsons_0141988

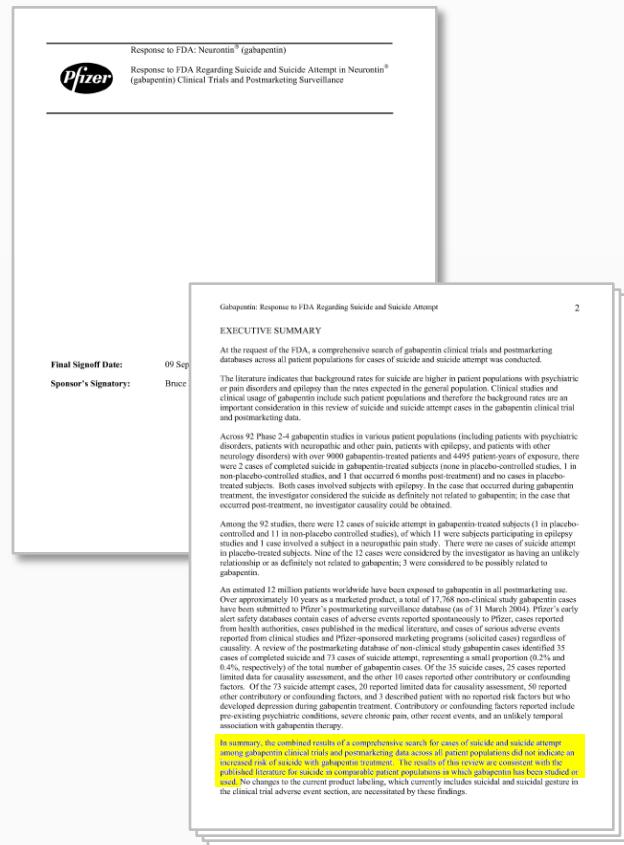
- Any events coding to preferred terms that include the text strings “suic” or “overdos”. Cases of accidental overdose will not be included.
- Verbatim/Investigator terms that include the following text strings, hyphenated as appropriate: “attempt”, “mutilate”, “overdos”, “self damage”, “self harm”, “self inflict”, “self injur”, “suic”
- For studies with no electronic data, adverse event terms from study reports will be reviewed with event terms consistent with certain text strings.

Pfizer 2004 Response to FDA Regarding Suicide and Suicide Attempt in Neurontin – Importance of Background Rates



The literature indicates that background rates for suicide are higher in patient populations with psychiatric or pain disorders than in the general population. Clinical studies and clinical usage of gabapentin include such patient populations and therefore the background rates are an important consideration in this review of suicide and suicide attempt cases in the gabapentin clinical trial and postmarketing data.

Pfizer 2004 Response to FDA Regarding Suicide and Suicide Attempt in Neurontin – Pfizer's Conclusions



In summary, the combined results of a comprehensive search for cases of suicide and suicide attempt among gabapentin clinical trials and postmarketing data across all patient populations did not indicate an increased risk of suicide with gabapentin treatment. The results of this review are consistent with the published literature for suicide in comparable patient populations in which gabapentin has been studied or used. No changes to the current product labeling, which currently includes suicidal and suicidal gesture in the clinical trial adverse event section, are necessitated by these findings.

FDA-Controlled Clinical Trials the Only Way to Establish Whether AEDs Are Responsible for Suicide

April 1, 2008 E-Mail From FDA to Ruggieri

From: CDER DRUG INFO [mailto:DRUGINFO@fda.hhs.gov]
Sent: Tuesday, April 01, 2008 8:20 AM
To: sprnd@roadrunner.com
Subject: Antiepileptic drugs

Dear Dr. Ruggieri:

Thank you for writing to the Food and Drug Administration (FDA). This is in response to your e-mail dated February 8, 2008, to Dr. Steven Galson, regarding your scientific concerns about the recent FDA alert announcing an increased risk of suicidal behavior and suicidal ideation in patients taking antiepileptic drugs. Your e-mail was forwarded to the Division of Drug Information (DDI) for a response.

In the near future, the FDA plans to hold an advisory committee meeting to discuss the current issues involving antiepileptic drugs. The primary purpose of the meeting will be to [1] make public the detailed results of the data analyses, [2] inform the committee of the actions we have taken and why, and [3] seek the committee's advice on whether our actions are appropriate and if any additional measures need to be taken. Our goal is to have the sponsors adopt the labeling changes for antiepileptic drugs by the time the meeting takes place, although we can not predict that this will be the case.

Portions of advisory committee meetings (depending on what is being discussed) are open to the public and oral presentations from the public are welcomed and encouraged. If you feel strongly about the class labeling change being implemented for antiepileptic drugs, I would suggest that you attend and/or present at the upcoming meeting.

If you are interested, please continue to visit <http://www.fda.gov/cm/advisory/default.htm> for information on when the meeting will take place. The Peripheral and Central Nervous System Drugs Advisory Committee will be at least one of the committees involved. The "notice of meeting" will provide the meeting location and instructions if you wish to present. In addition, transcripts and summary of minutes are usually available 30 days after the meeting and are also available from this site.

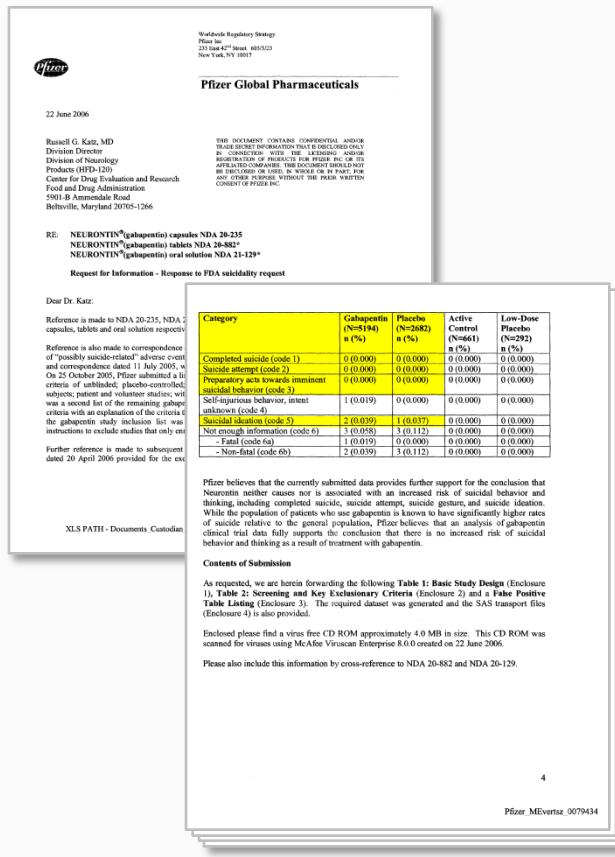
Concerning your question why data from the FDA Adverse Event Reporting System (AERS) has not been analyzed or made public, the agency does not believe that spontaneous post-marketing reports can be interpreted appropriately in this situation. Patients taking these drugs have a high background rate of suicidal thoughts/behaviors, and it is not possible to tell from AERS reports, whether the drug caused them. In the agency's view, the only way to

Patients taking [AEDs] have a high background rate of suicidal thoughts/behaviors, and it is not possible to tell from AERS reports, whether the drug caused them. In the agency's view, the only way to establish whether or not the drugs are responsible for suicidality is to analyze controlled trial data.

Source: E-mail from FDA to Dr. Alex Ruggieri (April 1, 2008)

Neurontin Placebo-Controlled Clinical Trial Data

June 22, 2006



Category	Gabapentin (N=5194) n (%)	Placebo (N=2682) n (%)
Completed suicide (code 1)	0 (0.000)	0 (0.000)
Suicide attempt (code 2)	0 (0.000)	0 (0.000)
Preparatory acts towards imminent suicidal behavior (code 3)	0 (0.000)	0 (0.000)
Suicidal ideation (code 5)	2 (0.039)	1 (0.037)
Total	0.039%	0.037%

FDA's Minor Labeling Change Request



-----Original Message-----
From: Calder, Courtney [mailto:CalderC@cder.fda.gov]
Sent: Tuesday, November 22, 2005 9:35 AM
To: 'Patel, Manini'
Cc: 'Evertsz, Mary Ann'; 'Phelan, Kevin (New York)'
Subject: RE: : Neurontin clarification by phone request

Hi Mary Ann,
Please proceed with the minor labeling changes pertaining to suicide-related events.
Thank you, Courtney

Courtney R. Calder, Pharm.D., LT USPHS
Regulatory Project Manager
Division of Neurology Products, HFD-120
Center For Drug Evaluation and Research, FDA
Office of Drug Evaluation I
Ph: (301) 796-1050
Fax: (301) 796-9842
Email: calderc@cder.fda.gov

November 22, 2005 E-Mail From FDA to Pfizer

Please proceed with
the **minor** labeling
changes pertaining to
suicide-related events.

Source: E-mail from Courtney Calder to Manini Patel (Nov. 22, 2005)

Top Criticisms of Blume

- ➊ The conclusions of the FDA clinical reviewers and the Peripheral and Central Nervous System Advisory Committee indicate that no evidence for an increased risk of suicidality or depression existed based on data from the Neurontin clinical trials in epilepsy.
- ➋ FDA's initial labeling decision not to include a warning for suicidal behavior and depression was confirmed repeatedly in subsequent analyses of the Neurontin safety data.
- ➌ FDA did not find any individual dechallenge-rechallenge observations sufficient to override the statistically significant comparison of adverse events reported by patients in the treatment and placebo groups.
- ➍ Dr. Blume's report repeatedly aggregates or "lumps" multiple adverse events into a category called "Psychobiologic Adverse Events." There is no explanation or medical basis provided in the Blume report of any medical or physiological semantic relationship of this aggregate concept to the concept of suicidality, nor would she by virtue of her qualifications, including her lack of medical training, be able to provide any.
- ➎ Dr. Blume's report incorrectly defines the concept of a proportional reporting ratio and subsequently misapplies it in graphical representations. The Blume report also fails to call out the widespread recognition of the limitations of this approach articulated by Dr. Strom as well as by Dr. Greenland.
- ➏ Dr. Blume highlights raw numbers of adverse event reports, but she does not calculate rates that provide a measure of risk and are necessary to identify excess risk, nor does she compare rates among comparator groups. She does not compare the rate of suicide in Neurontin patients with those of patients receiving placebo.
- ➐ FDA's meta-analysis in 2008 and the subsequent requirement of a class label does not indicate that prior decisions concerning the Neurontin label were wrong. In fact, the Neurontin data analyzed by FDA in 2008 would not suggest the need for a warning.

Safety Data Sent to FDA

1992

Epilepsy ISS

May 29, 1992

First Safety Update

October 30, 1992

Second Safety Update

May 12, 1993

Third Safety Update

December 15, 1993

Fourth Safety Update

December 3, 1999

Pediatric ISS

December 2001

PHN ISS

2004

Pfizer Response to FDA
Regarding Suicide and Suicide
Attempt in Neurontin

April 2004

One-year and
five-year PSURs

June 22, 2006

Pfizer Response to
FDA Suicidality
Request

1992

1993

1999

2001

2004

2006

Dr. Ruggieri's Opinions

- Pfizer and Warner-Lambert acted reasonably and complied with regulatory requirements in monitoring the safety of Neurontin
- The information available to Warner-Lambert and Pfizer has consistently failed to support an association or reveal any signal of potential increased risk for depression or suicidal behaviors in patients taking Neurontin
- No signal emerged sufficient to raise special safety concerns in the off-label use of Neurontin
- The Neurontin labeling adequately conveyed necessary information to prescribers regarding the risks and benefits of the medicine